

04/17/90



MATERIAL SAFETY DATA SHEET

Please rate consistent with NFPA Code SECTION I NAME AND PRODUCT MANUFACTURER'S NAME CONTACT **NORTON COMPANY** THOMAS Z. RICHARDS ADDRESS (STREET, CITY, STATE AND ZIP CODE) EMERGENCY TELEPHONE NO. 508-795-2690 1 NEW BOND STREET, WORCESTER, MA 01615-0008 **APPROVED BY** TRADE NAME, COMMON NAME OR SPECIFICATION RESINOID BONDED GRINDING WHEELS DATE April 17, 1990 CHEMICAL FAMILY OR PRODUCT TYPE BONDS: FFX, GFX, HFX, IFX, JTX, KTX, MTX, NTX, PTX, XFL, FL, M, R, IGX, LGX, NTX SOFT, MEDIUM, HARD, X-HARD SECTION II COMPOSITION PER 29CFR 1910.1200 (G) (4) **OSHA** CARCIN **ACGIH** MAX REG* CAS **PERMISSIVE OGEN** CHEMICAL NAME **COMMON NAME** (Y/N) TLV (Y/N) **EXPOSURE LIMIT** 10mg/m³ 10mg/m³ Alpha-Alumina 80 Alundum, Seeded Gel 1344-28-1 (Total Dust) (Total Dust) 10mg/m³ 10mg/m³ Silicon Carbide 80 Crystolon Υ 409-21-2 Ν (Total Dust) (Total Dust) The grinding wheel may be comprised of 1 or more of the above abrasives. The chemicals listed below may be a part of the bond system. **Hesin Coated Glass** 20% Fiberglass Υ 12604-58-9 **NAIF 10mg/m³ Ν ***N/A Y 107-13-1 **NAIF Acrylonitrile Copolymer 20% Nitrile Latex N Cotton (Raw) 20% Cotton 7440-50-8 1mg/m3 Dust **NAIF N *Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication Standard, and/or the Massachusetts General Law Chapter 111F, Right To Know Regulations. SECTION III PHYSICAL AND CHEMICAL DATA "NAIF MELTING POINT SPECIFIC GRAVITY 2-4 BOILING POINT "NAIF PERCENT VOLATILE BY VOL VAPOR DENSITY "NAIF **NAIF VAPOR PRESSURE "NAIF SOLUBILITY IN WATER Slight SOLUBILITY IN ALCOHOL "NAIF EVAPORATION RATE **NAIF APPEARANCE AND ODOR SOLUBILITY IN OTHER SOLVENT "NAIF SOLID PRODUCT: MAY GIVE OFF ODOR IN USE. SECTION IV SPECIAL PRECAUTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - NONE. OTHER PRECAUTIONS: **NAIF SECTION V CORROSIVITY AND REACTIVITY DATA **POLYMERIZATION** MAY OCCUR WILL NOT OCCUR STABILITY UNSTABLE X STABLE OMPATABILITY (MATERIALS TO AVOID) "NAIF **DECOMPOSITION PRODUCTS** In use, dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

""NA = NOT APPLICABLE

CONDITIONS TO BE AVOIDED **NAIF

NAIF = NO APPLICABLE INFORMATION FOUND

SECTION VI HEALTH, FIRST AID AND MEDICAL DATA						
PRIMARY ROUTE(S) OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION				
INHALATION (During Grinding)	ACUTE: POSSIBLE COUGH CHRONIC: MAY AFFECT BREATHING CAPACITY.	REMOVE TO FRESH AIR. ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN MEDICAL ASSISTANCE.				
INGESTION (During Grinding)	NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.	OBTAIN MEDICAL ASSISTANCE.				
SKIN (During CONTACT & Grinding) ABSORPTION	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE.				
EYE (During Grinding)	DUSTS MAY IRRITATE EYES.	WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, IF NEEDED.				
OTHER POTENTIAL HEALTH RISKS (During Grinding)	GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING AND MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS.	OBTAIN MEDICAL ASSISTANCE. THERE IS LIMITED INFORMATION THAT CRYSTALLINE SILICA IS A CARCINOGEN.				

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING SEE ANSI STANDARD B7.1.

NORMAL USE

HANDLE WITH ADEQUATE VENTILATION. SEE OSHA 29CFR 1910.94 (VENTILATION) and 29CFR1910.1000 (AIR CON TAMINANTS)

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS.

NORMAL CLEANUP PROCEDURES.

WASTE DISPOSAL METHOD

STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS. PRODUCTS WITH LISTED FLOURIDES MAY HAVE SLIGHTLY SOLUBLE FLOURIDE SWARF.

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SECTION VIII PERSONAL PROTECTION INFORMATION					
RESPIRATORY	PROTECTION (SF	PECIFY TYPE) AS NEEDED. FOR APPROVED DUST RESPIRATORS SEE OSHA 29CFR 1910.134.			
VENTILATION	LOCAL	RECOMMENDED			
	MECHANICAL (GENERAL)	RECOMMENDED			
	OTHER	**NAIF			
PROTECTIVE C	SLOVES	RECOMMENDED			
EYE PROTECT	ION	RECOMMENDED SEE OSHA 29CFR 1910.133			
OTHER EQUIP	MENT	AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.95 (HEARING PROTECTION)			
WORK/HYGIEN	IC PRACTICES: WASH FREQUE	NTLY WITH SOAP AND WATER			

SECTION IX FIRE AND EXPLOSION HAZARD DATA							
FLASH POINT	**NAIF	METHOD USED ***N/	A FLAMMABLE LIMITS	LEL N/A	UEL ***N/A		
EXTINGUISHING	MEDIA	USE WATER					
SPECIAL FIRE FI	IGHTING PROCE	DURES NONE					
EXPLOSION POT	ΓENTIAL	**NAIF				- d	

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